

Name: \_\_\_\_\_

Date: \_\_\_\_\_

A2&T: Quadratic Inequalities (2 variables)

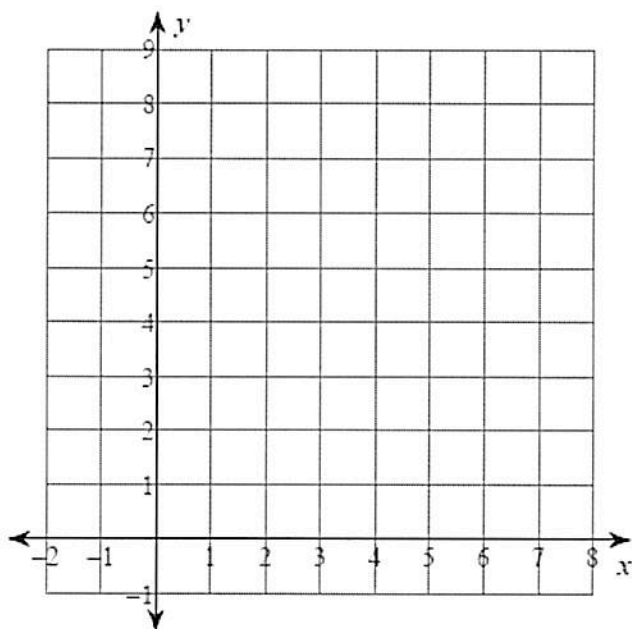
Do Now

Write a quadratic equation that has  $4 + \sqrt{5}$  as a root.

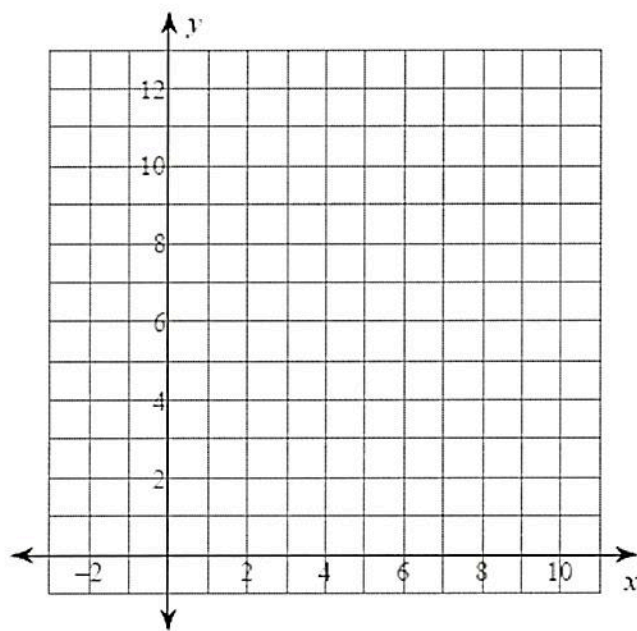
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**Sketch the graph of each function.**

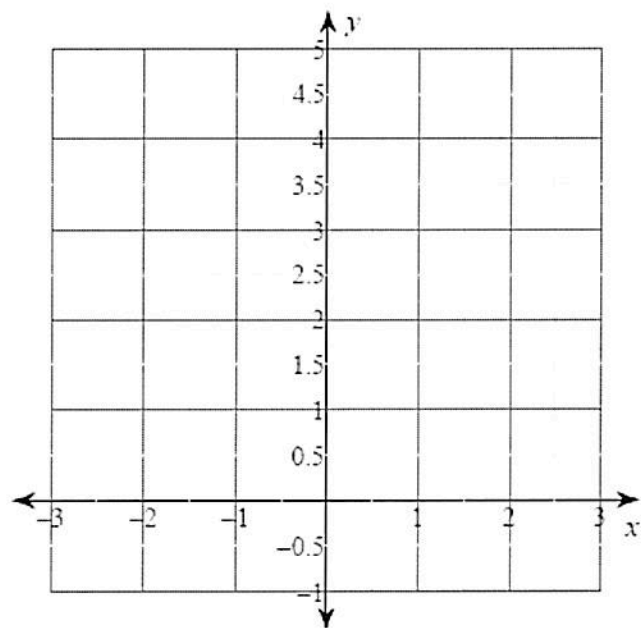
1)  $y \geq 2x^2$



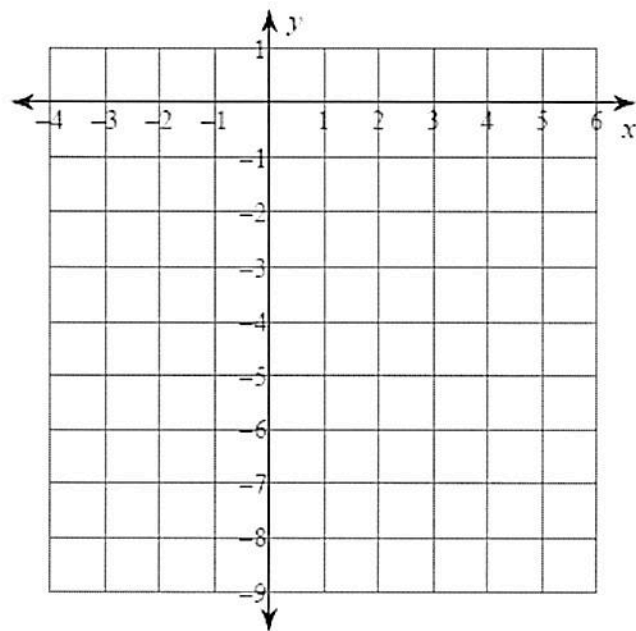
$$2) \ y > 3x^2$$



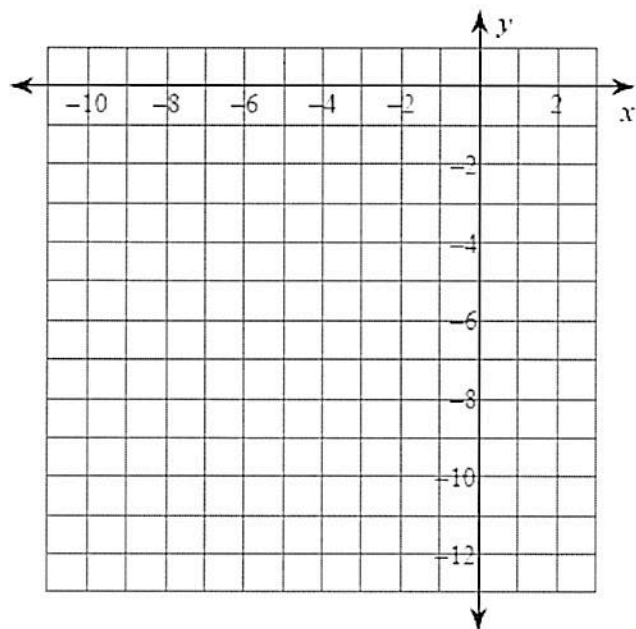
$$3) \ y > x^2$$



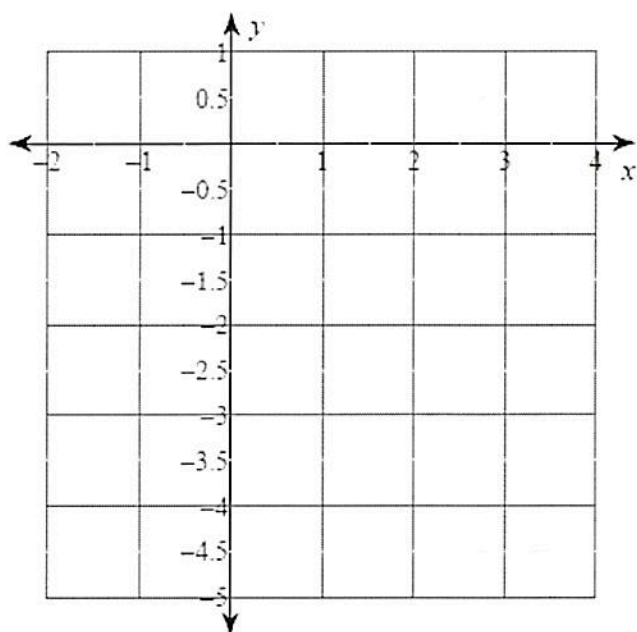
4)  $y < -2x^2$



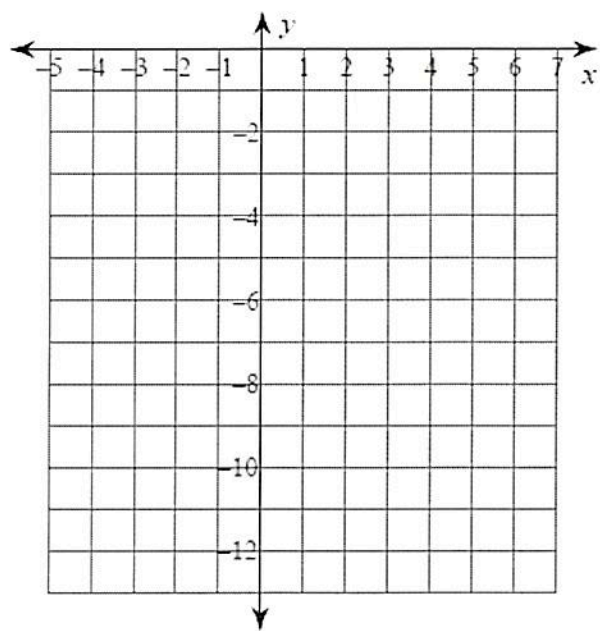
5)  $y \geq -3x^2$



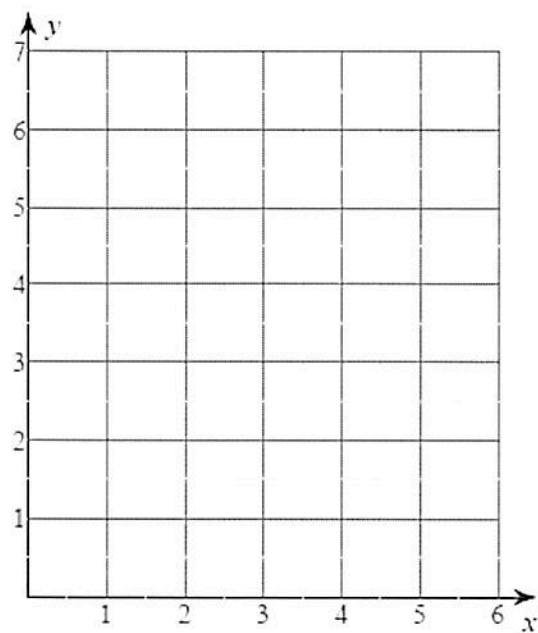
6)  $y \leq -x^2$



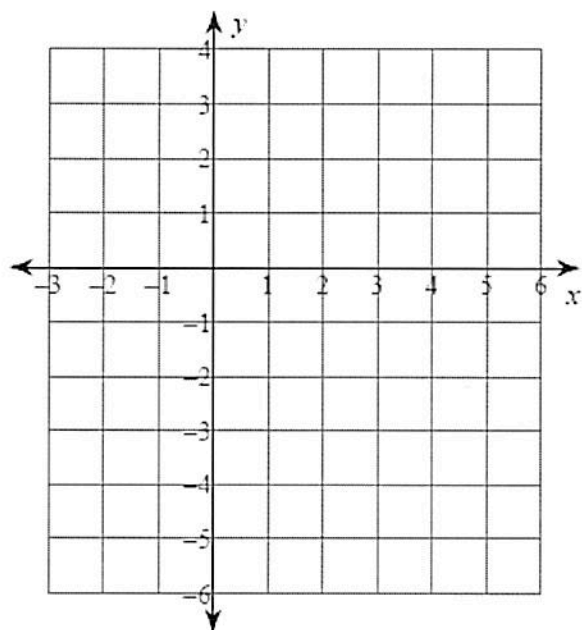
7)  $y < -2x^2 - 8x - 12$



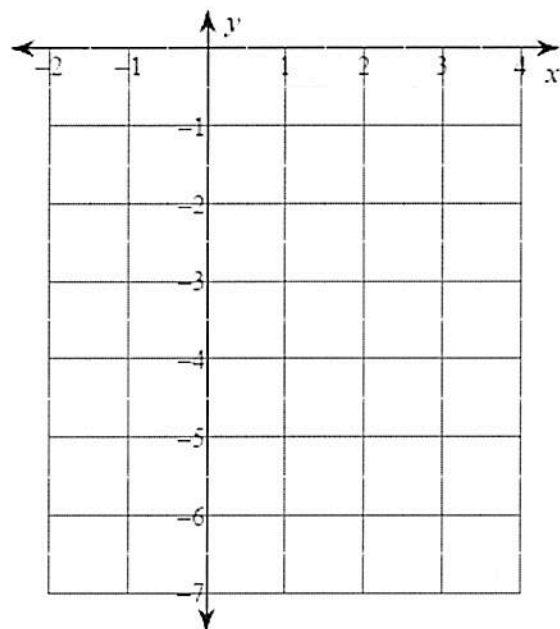
$$8) y \leq x^2 - 6x + 11$$



$$9) y \geq -2x^2 + 16x - 29$$



$$10) \ y > -x^2 + 4x - 6$$



$$11) \ y \leq 4x^2 + 32x + 62$$

